

Name _____ Date _____

MULTIPLICATION AND DIVISION OF COMPLEX NUMBERS \neq

Simplify

1. $(7 + 5i)(4 + 3i)$	2. $(8 - 7i)(5 + 6i)$	3. $(9 - 5i)(3 - 7i)$
4. $(5 + 4i)(5 - 4i)$	5. $(7 + 4i)(7 - 4i)$	6. $(4 + 9i)(4 - 9i)$
7. $(7 + 6i)^2$	8. $(8 - 5i)^2$	9. $(9 + 7i)^2$

10. $\frac{9 + 2i}{5 + 4i} =$
11. $\frac{7 + 6i}{4 - 3i} =$
12. $\frac{8 - 3i}{9 - 5i} =$